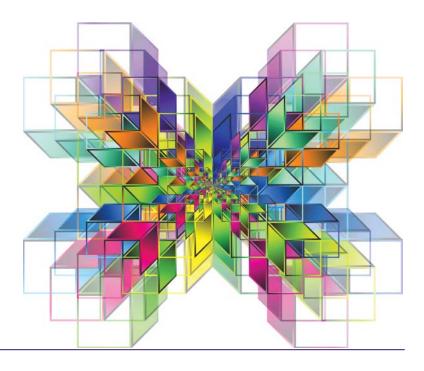


## GCSE Maths hub schools network

Spring 2019







Exam boards have an Ofqual requirement to record event audio.

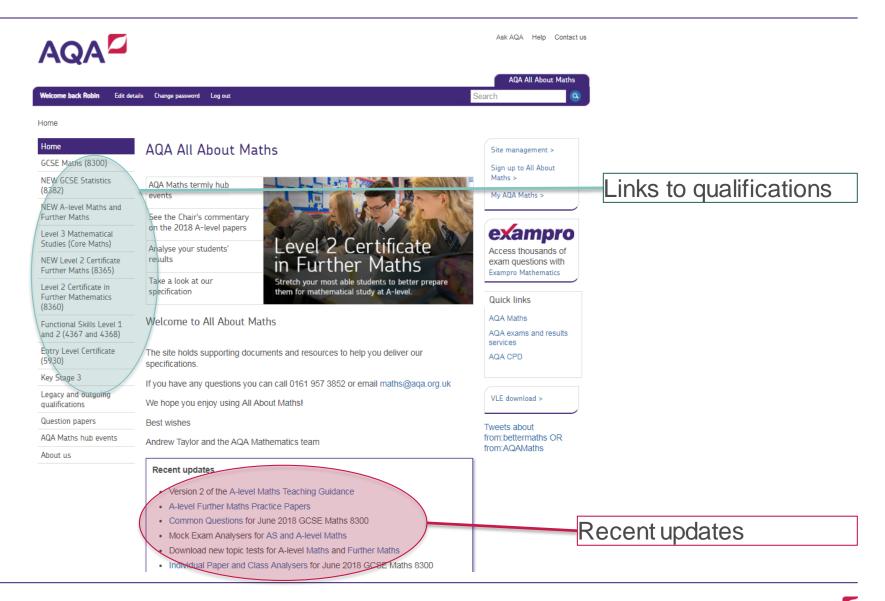
Recordings are kept for the lifetime of the specification and not shared as an accompaniment to session resources.

The recording will begin now.

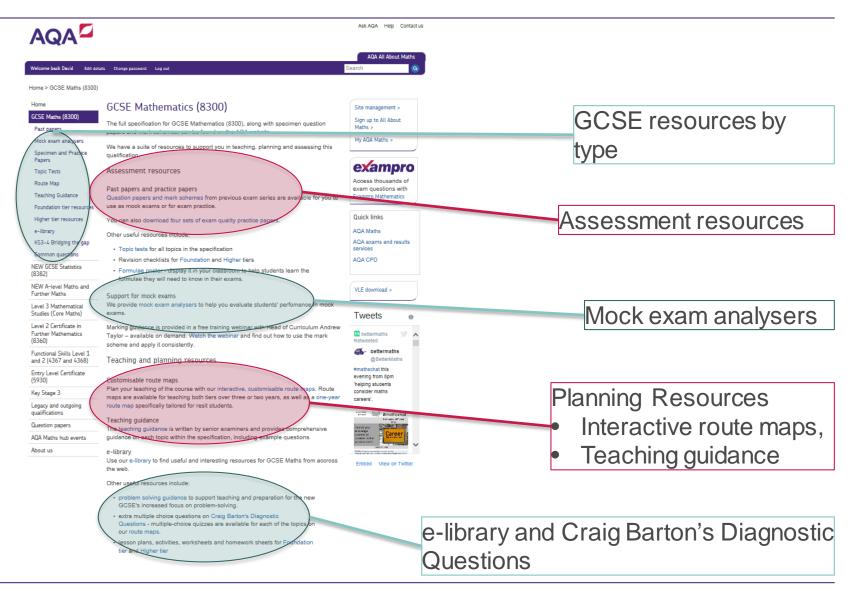
### All About Maths – general navigation



### All About Maths Home Page



## GCSE on All About Maths





### Topic tests and navigation



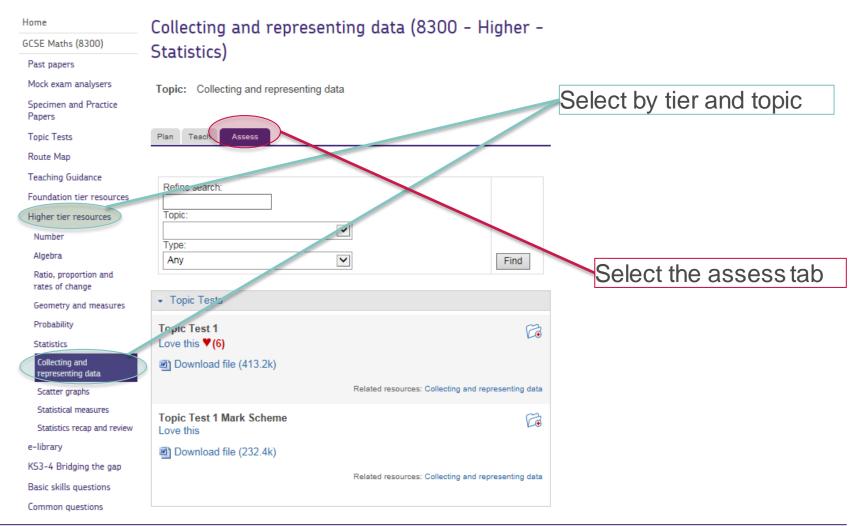
### Topic tests

#### Home > GCSE Maths (8300)

Home	GCSE Mathematics (8300)		
GCSE Maths (8300) Past papers	The full specification for GCSE Mathematics (8300), along with specimen question papers and mark schemes, can be found on the AQA website.		
Mock exam analysers Specimen and Practice Papers	We have a suite of resources to support you in teaching, planning and assessing this qualification.		
Topic Tests	Assessment resources	Zip folders of topic tests	
Route Map Teaching Guidance Foundation tier resources	Past papers and practice papers Question papers and mark schemes from previous exam series are available for you to use as mock exams or for exam practice. You can also find June 2018 GCSE Examiner		
Higher tier resources	Reports. You can also download four sets of exam quality practice papers.		
KS3-4 Bridging the gap	Other useful resources include		
Basic skills questions			
Common guestions	Topic tests for all topics in the specification  Revision checklists for Foundation and Higher ters		
NEW GCSE Statistics (8382)	Formulae poster - display it in your classroom to help students learn the formulae they will need to know in their exams		
NEW A-level Maths and Further Maths	Basic skills questions to help identify gaps at the start of a resit course		
Level 3 Mathematical Studies (Core Maths)	Support for mock exams We provide mock exam analysers to help you evaluate students' perfomance in mock	Also available by topic	
NEW Level 2 Certificate Further Maths (8365)	exams. Marking guidance is provided in a free training webinar with Head of Curriculum Andrew		
Level 2 Certificate in Further Mathematics (8360)	Taylor – available on demand. Watch the webinar and find out how to use the mark scheme and apply it consistently.	and through the Route Maps	
Functional Skills Level 1 and 2 (4367 and 4368)	Teaching and planning resources		
Entry Level Certificate (5930)	Customisable route maps Plan your teaching of the course with our interactive, customisable route maps. Route maps are available for teaching both tiers over three or two years, as well as a one-year		
Key Stage 3	route map specifically tailored for resit students.		
Legacy and outgoing qualifications	Teaching guidance The teaching guidance is written by senior examiners and provides comprehensive		
Question papers	guidance on each topic within the specification, including example questions.		

### Topic tests by tier and topic

Home > GCSE Maths (8300) > Higher tier resources > Statistics > Collecting and representing data



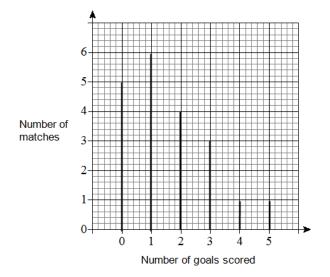


### Collecting and representing data



Topic Test 1 (20 minutes) Collecting and representing data - Higher

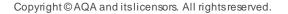
1 The diagram shows the number of goals scored by a team with their old manager.



The team had a new manager for the last few matches of the season. They scored 40 goals over the whole season of 24 matches.

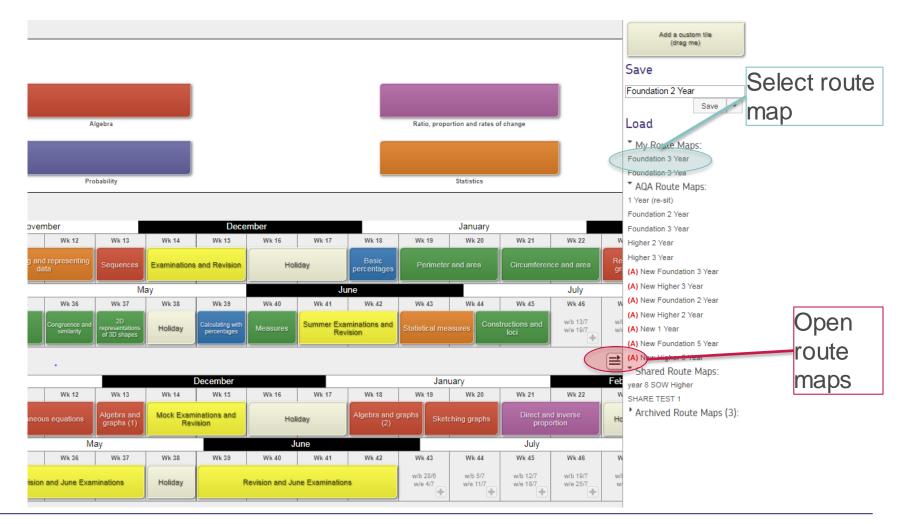
How many goals per match did they score on average with the new manager?

[4 marks]



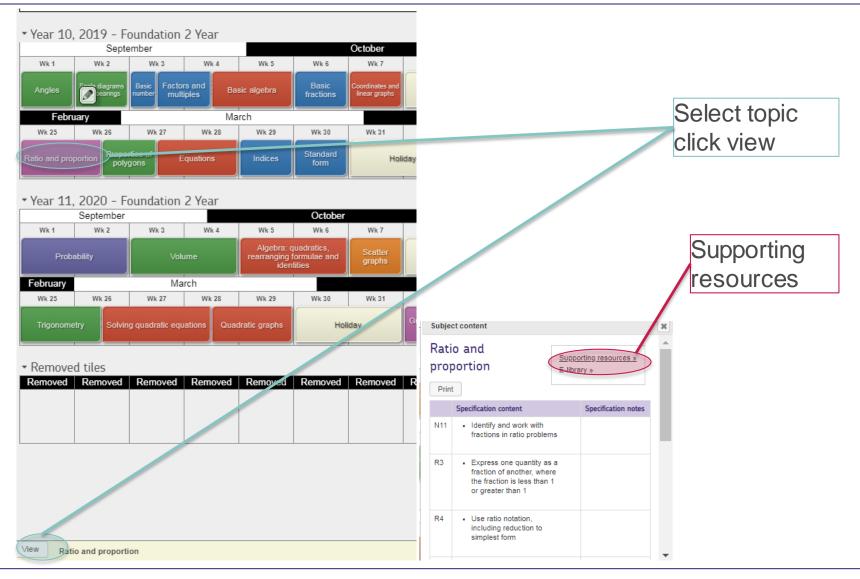


### Route map

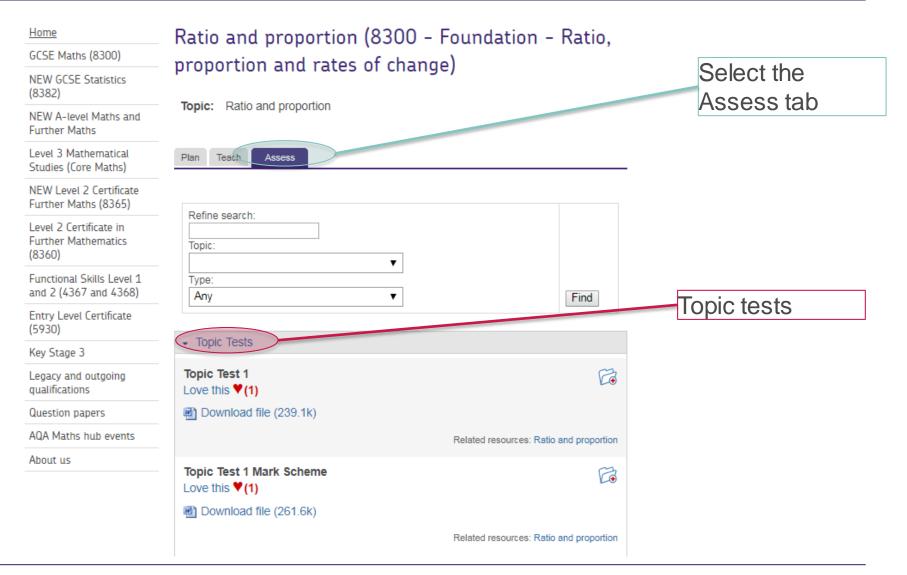




### Resources via route map



### Topic Tests via Route Map





## Topic Test 1 (20 minutes)

### Ratio and proportion - Foundation

- 1 The workers in a company are in the ratio <u>female</u>; male = 1:4.5
- 1 (a) What fraction of the workers are female?

[2 marks]

Answer \_\_\_\_\_

1 (b) The company has 150 female workers.

How many workers are there altogether?

[2 marks]

## Any questions?





### Coffee break

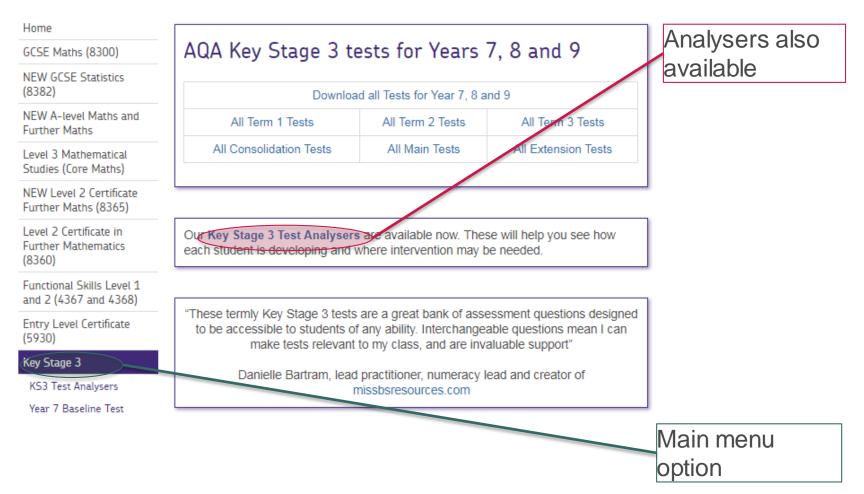


### Key Stage 3 Tests and navigation



### Key Stage 3 tests

Home > Key Stage 3





### What are AQA Key Stage 3 tests?

We've worked with teachers from the Ark schools to put together a series of tests aimed at Key Stage 3 students.

Covering Years 7, 8 and 9, our termly Key Stage 3 tests help you:

- check your students understanding
- · identify areas where intervention is needed
- · get students used to how GCSE papers look and feel
- · become familiar with command words and question styles to GCSE
- · to design the test you want by cutting and pasting from across the tests.

Our Key Stage 3 tests are designed to help you see how your students are engaging with mathematics and performing relative to each other; they should not be used to predict future GCSE grades and we won't offer indicative grade boundaries, as these could not currently be reliable. However, these tests, or questions taken from them, may support your school's strategy in addressing assessment without levels.



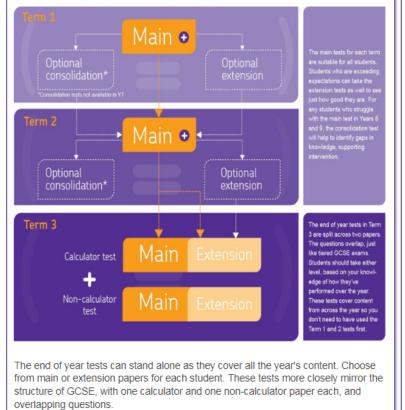
### Key Stage 3 tests structure

### How to use the tests

Start your students with the main test for that term. From there, students who perform well can move to a more demanding extension test to challenge them further.

For students who don't perform as well, follow on with the consolidation test to understand more about gaps in their knowledge.

#### AQA Maths: Key stage 3 tests for years 7, 8 and 9



### AQA Key Stage 3 Tests and Mark Schemes

Download all Tests for Year 7, 8 and 9						
All Term 1 Tests		All Term 2 Tests	All Term 3 Tests			
All Consolidation Tests		All Main Tests	All Extension Tests			
		1				
Year 6/7 baseline test and in Year 7)	l marl	scheme (this paper is	designed to be used early			
Download all Year 7 Tests						
Year 7 Term 1 Tests	Y	ear 7 Term 2 Tests	Year 7 Term 3 Tests			
	Year 7 Main Tests		Year 7 Extension Tests			
	Do	wnload all Year 8 Tests				
Year 8 Term 1 Tests		Year 8 Term 2 Tests	Year 8 Term 3 Tests			
Year 8 Consolidaton Tests		Year 8 Main Tests	Year 8 Extension Tests			
Download all Year 9 Tests						
Year 9 Term 1 Tests		Year 9 Term 2 Tests	Year 9 Term 3 Tests			
Year 9 Consolidation Tests		Year 9 Main Tests	Year 9 Extension Tests			



### Key Stage 3 tests structure

Home > Key Stage 3 > Year 9 Term 3 Tests

Home	Key Stage 3 Year 9 Term 3 Tests			
GCSE Maths (8300)				
NEW GCSE Statistics	Year 9 Term 3 Extension Test (calculator paper)	B		
NEW A-level Maths and Further Maths	图 Download file (464.9k)			
evel 3 Mathematical Studies (Core Maths)	Year 9 Term 3 Extension Test (calculator paper) Mark Scheme			
WEW Level 2 Certificate Further Maths (8365)	Leve this Download file (573.4k)	C.		
evel 2 Certificate in Further Mathematics 8360)		Related resources		
unctional Skills Level 1 ( and 2 (4367 and 4368)	Year 9 Term 3 Extension Test (non-calculator paper)	B		
Entry Level Certificate 5930)	Download file (501.8k)			
Key Stage 3		Related resources		
KS3 Test Analysers	Year 9 Term 3 Extension Test (non-calculator paper) Mark Scheme Love this ¥(4)	E		
Year 7 Baseline Test				
Year 7 Term 1 Tests	Download file (556.0k)			
Year 7 Term 2 Tests		Related resources		
Year 7 Term 3 Tests Year 7 Main Tests	Year 9 Term 3 Main Test (calculator paper) Love this ♥(4)	E		
Year 7 Extension Tests	Download file (449.5k)			
Year 8 Term 1 Tests		Related resources		
Year 8 Term 2 Tests				
Year 8 Term 3 Tests	Year 9 Term 3 Main Test (calculator paper) Mark Scheme Love this	G		
Year 8 Consolidaton Tests	Download file (462.3k)			
Year 8 Main Tests	the second s			
Year 8 Extension Tests		Related resources		
Year 9 Term 1 Tests	Year 9 Term 3 Main Test (non-calculator paper)	Pa		
Year 9 Term 2 Tests	Love this 🖤 (5)	5		
Year 9 Term 3 Tests	圏 Download file (560.6k)			

### Year 9 Term 3 extension tests

### AQA

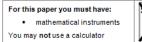
### Key Stage 3 Mathematics Term 3

Year 9

Extension Paper 1

#### 1 hour

#### Materials



### You may not use a calcul

- Instructions
  Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the bottom of this page.
- Answer all questions.
- You must answer the questions in the space provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work that you do not want to be marked.
- · In all calculations, show clearly how you work out your answer.

#### Information

- · The marks for questions are shown in brackets.
- · The maximum mark for this paper is 60.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer booklet.

Please write clearly, in block capitals.			
Centre number			
Surname			
Forename(s)			
Candidate signature			

For Examiner's Use	
2 – 3	
4 – 5	
6 – 7	
8 – 9	
10 – 11	
12 – 13	
TOTAL	

## Any questions?

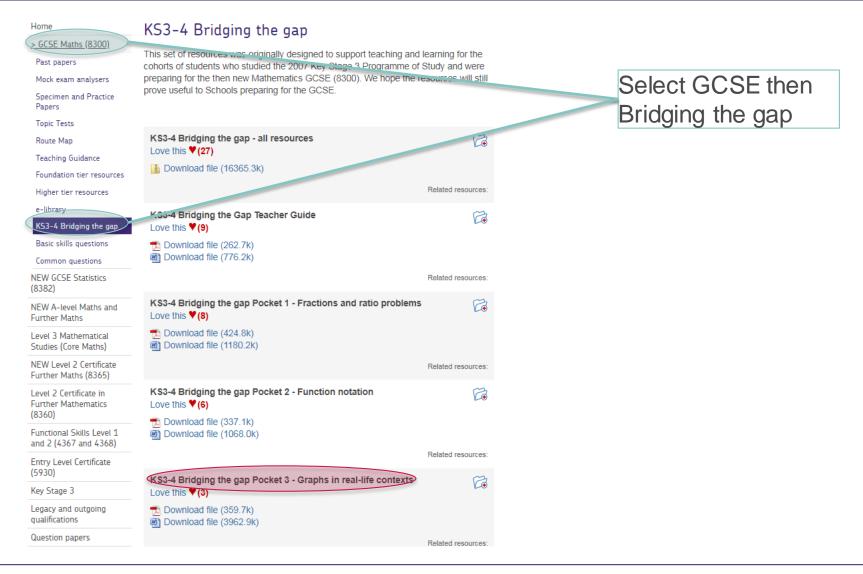




### Bridging the gap



## Bridging the gap





## Bridging Units: Resource Pocket 3 Graphs in real-life contexts Kinematics Graphs representing financial situations

Most students will have some knowledge of how to calculate bills such as mobile phone contracts containing fixed charges, however this is often assumed knowledge and many students struggle to understand the breakdown of the bill. When meter readings are introduced, many students do not know what to do with the various numbers and are not aware what they stand for. Spending time discussing these personal finance topics will be beneficial for the students prior to beginning a GCSE course.

Students are likely to have met distance – time graphs in science but further detailed study of this area will help students grasp the mathematical concepts involved. Velocity – time graphs and the calculation of acceleration (gradient) should also be familiar from science lessons, but it will be beneficial to revise this to ensure that students are familiar with the terms prior to starting the GCSE.

This resource pocket progresses through three sections: developing understanding, skills builders and problem solving activities. As with all 9 resource pockets a number of different learning styles and approaches are used to cater for a variety of learners.

## Any questions?





## Sharing resources





T: 0161 957 3852 E: maths@aqa.org.uk





The electronic materials from this event will be made available to you in the customer portal of our online booking system.

Once we receive notification that you have attended the course, you will be sent a certificate of attendance by email. When you receive your certificate, please log in to your account and the materials will be available on the my resources tab from the welcome screen.

Please take a moment to complete a brief evaluation form for today's event. Your feedback is very important to us as it helps us improve and plan future training.

You should have been emailed the evaluation form. Please check your inbox (possibly your junk mail folder). If you haven't received it please give your trainer your name, centre name/number and email address so that we can look into it for you.

Thank you.



# Thank you